

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000242

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C22B 3/22, C02F 1/62, C02F 9/00, B01D 37/02  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C22B, C02F, B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03002774 A1 (OUTOKUMPU OYJ), 9 January 2003 (09.01.2003), page 1, line 4 - line 7; page 5, line 19 - line 22 --	1,6-13
X	US 4128617 A (MARCEL F. DEGUIRE ET AL), 5 December 1978 (05.12.1978), column 7, line 26 - line 38 --	1
X	File EPODOC/EPO, BRUSS POLT I (SU): "METHOD OF DEHYDRATING WASTE WATER PRECIPITATE", SU827424 A, 19810507 --	1,6-13

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 Sept 2004

Date of mailing of the international search report

14 -09- 2004

Name and mailing address of the ISA/

Swedish Patent Office

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000242

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0020904 A1 (HOECHST AKTIENGESELLSCHAFT), 7 January 1981 (07.01.1981), page 3, line 30 - line 36  --	1,6,12
X	WO 0017407 A1 (M.I.M. HOLDINGS LIMITED), 30 March 2000 (30.03.2000), page 27, line 29 - line 37  --	1-10,12-13
X	US 5120447 A (JOEL B. CHRISTIAN), 9 June 1992 (09.06.1992), claim 1, abstract  --	1,6-13
A	DE 4009589 A1 (BRAUN, RAINER ET AL), 2 October 1991 (02.10.1991)  --	1-13
A	US 4647307 A (REIN RAUDSEPP ET AL), 3 March 1987 (03.03.1987), column 12, line 28 - line 48  --	1-13
A	US 4759913 A (THOMAS A. HEADINGTON), 26 July 1988 (26.07.1988), column 6, line 30 - line 62  -- -----	1-13

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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: **1 (partly)**  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
**see extra sheet**
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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Claim 1 has a wide scope. A search over the whole scope is not possible (PCT Guidelines 15.22). The search has been limited to the case that the waste material that is added as gypsum precipitate, in accordance with the description.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

31/07/2004

International application No.

PCT/FI 2004/000242

WO	03002774	A1	09/01/2003	BR	0210735 A	20/07/2004
				CA	2450345 A	09/01/2003
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				FI	20011413 A	30/12/2002
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US	4128617	A	05/12/1978	AR	217307 A	14/03/1980
				BR	7804464 A	02/05/1979
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EP	0020904	A1	07/01/1981	SE	0020904 T3	
				AT	2130 T	15/01/1983
				DE	2920914 A	04/12/1980
				DE	3061484 D	00/00/0000
				DK	224580 A	24/11/1980
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WO	0017407	A1	30/03/2000	AU	744356 B	21/02/2002
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				CA	2349940 A	30/03/2000
				EP	1171641 A	16/01/2002
				NZ	511616 A	25/10/2002
				ZA	200103771 A	12/08/2002
				AU	PP631398 D	00/00/0000
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US	5120447	A	09/06/1992	NONE		
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DE	4009589	A1	02/10/1991	NONE		
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US	4647307	A	03/03/1987	AU	566135 B	08/10/1987
				AU	2351584 A	19/07/1984
				CA	1219132 A	17/03/1987
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				SE	0119685 T3	
				ZA	8400153 A	24/04/1985
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US	4759913	A	26/07/1988	BE	1002644 A	23/04/1991
				BR	8800725 A	25/10/1988
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				ZA	8800582 A	28/09/1988
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